

VI. *Notes on the Diurnal Lepidoptera described by Jablonsky and Herbst, in their "Natursystem aller bekannten Insekten."* By W. F. KIRBY, Assistant in the Museum of the Royal Dublin Society.

[Read 4th March, 1872.]

THIS work seems to be little known to entomologists, except by name; but as it contains several new species and corrections of synonymy, a few notes may not be uninteresting. By far the largest number of species figured, are copied from Cramer, Esper, Drury, &c., and hence the five per cent, or so, of new species, &c., have not unnaturally been overlooked.

Vol. 1. By Jablonsky, 1782.

9. PAP. PANDARUS, Jabl., p. 209, t. 6, f. 1.

This species, the *Pseudopandarus* of Esper, is universally considered to be a fabrication.

Vol. 2. By Jablonsky, 1784.

32. PAP. PHORBANTA, L., p. 125, t. 12, f. 3.

The first figure of this species in any systematic work. It is copied from D'Aubenton.

51. PAP. PELAUS (?), F., p. 265, t. 19, f. 1.

Pap. Peleides, Esp. Boisduval doubts the existence of this species.

Vol. 3. By Herbst, 1788.

99. PAP. MILTIADES, p. 154, t. 44, f. 1, 2.

This species, copied from D'Aubenton, is, as Doubleday remarks, a compound of the fore-wings of *P. Erithonius* and the hind-wings of *P. Ajax*.

116. PAP. POMPILIUS, F., p. 205, t. 49, f. 5, 6.

Pap. Policenes, Cr., is figured under this name. *Pap. Pompilius*, F., is a somewhat doubtful species.

124. PAP. CRITHON, p. 228, t. 52, f. 5, 6.

Pap. (Megalura) Crethon, Fabr. The only existing figure of this species.

Vol. 4. By Herbst, 1790.

154. PAP. CAJUS, p. 65, t. 64, f. 1, 2.

Pap. Brutus, Cr., nec Fabr.; *Charaxes Brutus*, auct. If the Fabrician species has the priority, Herbst's name should probably stand. It is, however, a dubious point, whether a name altered on the ground of *double emploi*, and since overlooked, should afterwards be restored, when no confusion between the two names is any longer possible.

159. PAP. ATTICUS, p. 75.

Pap. Empedocles, F., nec Cr. Here again Herbst's name should, perhaps, supplant that of Fabricius.

28. PAP. CAROLINA, p. 131, t. 72, f. 2.

An undetermined species of *Migonitis*.

40. PAP. MYRTI, F., p. 150, t. 74, f. 5.

Under this name, Herbst figures *Pap. Erycinia*, Cr. (*Archonias Bellona*, Cr. ♀); *Pap. Myrti*, Fab. is however = *Migonitis Ricini*, L. (Crotch having shown that the true type of *Heliconius* is *Psidii*, L., the genus which has hitherto usurped that name must be called *Migonitis*, H.).

46. PAP. HECALE, F., p. 161, t. 76, f. 1.

Herbst rightly figures *Migonitis Pasithoe*, Houtt., Cr. under this name. It is very doubtful whether the Fabrician name ought not to stand for this species, as it was first figured by Houttuyn, "Nat. Hist.," t. 1, par. 11, p. 231, pl. 88, f. 2, by mistake for *Delias Pasithoe*, L.

Vol. 5. By Herbst, 1792.

1. PAP. RUDOLPHINA, p. 7, t. 81, f. 1, 2.

Cramer figured two species, a *Melinæa*, and an *Acræa*, under the name *Egina*. Stoll refigured the former on a subsequent plate, as *Ludovica*, which name should perhaps be accepted; Herbst renames the *Acræa*, to which the name *Egina* belongs by priority, *Pap. Rudolphina*.

11. PAP. KARSCHINA, p. 26, t. 83, f. 5, 6.

Herbst employs this name for *Euritea*, Dru., nec Cr., and his name must stand. It has since been twice renamed; and is inserted in my catalogue as *Melinæa Gazoria*, Godt.

12. PAP. UNZERINA, p. 27, t. 83, f. 7.

Herbst erroneously adopts this name for *Ithomia diaphanus*, Dr., in consequence of Stoll and Cramer having

subsequently figured another species (*I. Drymo*, Hübn.) as *diaphana*.

17. PAP. ANACARDII, p. 34, t. 84, f. 8.

Under this name, Herbst copies Merian's figure of *Hætera Piera*, L.

9. PAP. MINNA, p. 74, t. 89, f. 1, 2.

Catopsilia Pyranthe, var.

10. PAP. LINA, p. 75, t. 89, f. 3, 4.

A species of *Dismorphia*, closely allied to *D. Licinia*, Cr.

13. PAP. ARGIA, F., p. 78, t. 90, f. 1.

Eronia Argia. Herbst copies Cramer's figure (*Cassiopea*, Cr., 201 A), and is the first author who figures the species under the Fabrician name.

32. PAP. AURORA, Cr., p. 103, t. 94, f. 5, 6.

33. PAP. META, p. 104, t. 94, f. 7-9.

35. PAP. EUCHARIS, F., p. 107, t. 95, f. 5-8.

Callosune Aurora, Cr. (or rather Stoll), is usually regarded as synonymous with *Eucharis*, F. Herbst considers Stoll's figures of the ♀ to represent the ♂ of another species, which he calls *Meta*; and he figures as its ♀ an insect perfectly similar, but with white instead of orange spots at the tip of the fore-wings. As *Pap. Eucharis*, F., he copies Stoll's figures of *Eborea*, ♂, which = *C. Danae*, F., and not *Eucharis*. I cannot satisfy myself that Donovan's figure of *Eucharis*, F. (Ins. Ind. t. 27, f. 4), although undoubtedly very bad, really represents the same insect as *Aurora*, St.

48. PAP. ANTONOE, p. 126, t. 100, f. 1-4.

Herbst adopts this name for *Hyparete*, Cr. & St. = *Delias Cæneus*, L.

51. PAP. HYPARETHE, L., p. 131, t. 101, f. 3-7.

Under this name Herbst has mixed together the figures of Cramer and Drury, representing *Delias Hyparete*, L., and *D. Eucharis*, Dr., nec F. The name *Eucharis* having been used by Drury before Fabricius, the Fabrician *Eucharis* mentioned above should retain the name *Aurora*.

70. PAP. MÆRULA, p. 158.

Herbst adopts this name (wrongly in any case) for the fictitious *Pap. Ecclipsis*, L.

74. PAP. LALAGE, p. 163, t. 106, f. 1, 2.

Catopsilia Crocale, ♂, Cr.

82. PAP. HECABE, L., p. 171, t. 106, f. 3-5.

Herbst's figure of the ♂ evidently represents another species.

87. PAP. HANNA, p. 177, t. 107, f. 5, 6.

This name must take precedence of *Callosune Cebrene*, Boisd., for *Pap. Arethusa*, Cr. nec Dru.

88. PAP. ÆNIPPE, Cr., p. 178, t. 107, f. 7, 8; t. 108, f. 1, 2.

Herbst refers to this species Cramer's figures 105, C. D., and 157, C. D.

90. PAP. ULRICA, p. 182, t. 108, f. 9, 10.

Herbst proposes this name for *Pap. (Ixias) Ænippe*, Cr., 229, B. C., nec 105, C. D.

91. PAP. SESIA, F., p. 183, t. 109, f. 1-4.

Under this name Herbst figures *Pap. Pyrene*, Cr., 125, A. B., and *Pap. Evippe*, Dru.

116, 118, 119. PAP. HYALE, PALÆNO, and EUROPOME.

I merely mention these species to remark that the first is the true *Hyale*, L.; the second, *sareptensis*, Staud.; and the last the true *Palæno*, L.

117. PAP. HEOS, p. 213, t. 114, f. 5, 6.

Herbst rightly changes the name of *Colias Aurora*, Esp., nec *Aurora*, Stoll.

Vol. 6. By Herbst, 1793.

3. PAP. SUPERBUS, p. 14, t. 119, f. 3; t. 120, f. 1, 2.

A well-known species of *Euploea*.

5. PAP. CLAUDIUS, F., p. 17, t. 120, f. 5.

Herbst first figures *Pap. Midamus*, L. (♀) under this name.

74. PAP. CICERO, p. 130, t. 146, f. 3, 4.

Euthalia Evelina, Stoll.

81. PAP. ACONTHEA, Cr., p. 143, t. 149, f. 1-4.

Herbst quotes *Pap. Melissa*, F., which is probably a species of *Æneis*, as a synonym of this.

Vol. 7. By Herbst, 1794.

15. PAP. PULSIUS, p. 83, t. 165, f. 6, 7.

Herbst would have done right in thus renaming Drury's *Rumina*, if this species were not synonymous with *Axiocerces Thero*, L.

28. PAP. TRULLUS, p. 108, t. 169, f. 6, 7.

Herbst has thus renamed *Precis Pelarga*, F., without stating his reasons.

29. PAP. CORTINNA, p. 110, t. 181, f. 1, 2.

Pap. Merione, Cr., is thus renamed, although it is prior to *Pap. Merione*, F.

64. PAP. ATALANTA, L., p. 171, t. 180, f. 1-6.

Herbst calls figs. 1 & 2 *Atalanta Indica* on his plate.

The insect thus named is *Calliroë*, Hübn.

Vol. 8. By Herbst, 1796.

67. PAP. ZITENIUS, p. 5, t. 182, f. 1, 2.

Melanitis Vamana, Moore, is the ♂ of this species.

[The writings of Latreille prove *undularis* to be the true type of *Melanitis*, and hence *Leda* and allies must be referred to the genus *Hipio*, Hübn.]

2. PAP. SUWAROVIVS, p. 13, t. 182, f. 5-7.

Pap. Arge Russiae, Esp.

3. PAP. SYLLIUS, p. 15, t. 182, f. 8, 9.

I am unable to state with certainty, whether this name has the priority over Esper's *Pap. Arge Occitanica*. It certainly has over *Pap. Psyche*, Hübn.

6. PAP. PROCIDA, p. 22, t. 183, f. 5, 6.

The common Italian form of *Melanargia Galathea*.

22. PAP. HANNIBAL, p. 48, t. 188, f. 5-8.

Herbst adopts this name (in the text only) for *Cœnonympha Dorus*, Esp., apparently on account of there being more than one *Doris* already.

36. PAP. HAMILCAR, p. 73, t. 193, f. 3.

Herbst rightly adopts another name for *Pap. Doris*, Cr. & St. (*nec* L.), but the species is now referred to *Mycalesis Medus*, F.

40. PAP. EUSTACHIUS, p. 77, t. 193, f. 8, 9.

Euselasia Mys, H.-S.

53. PAP. MINEUS, L., p. 92, t. 196, f. 1, 2.

Mycalesis Drusia, Cr., is figured as *Mineus*, L.

60. PAP. IPHIGENUS, p. 108, t. 198, f. 5-8.

A variety of *Cœnonympha Œdipus*, F., figured by Esper (subsequently to Herbst?) under the name of *Geticus*.

67. PAP. HIPPOLYTUS, p. 126, t. 201, f. 3, 4.

Hipparchia Proserpina, Cyr. (*vide infra*) figured by Esper, t. 83, fig. 4, as *Pap. Actæa*, var.

74. PAP. TYNDARELLUS, p. 135, t. 202, f. 5, 6.

I know not why Herbst changed the name of *Erebia Tyndarus*, Esp.; but he alters the terminations of many other names, as Hübner, Godart, and other authors, have done after him. I have not retained the name *Maniola*, Schr., for *Erebia*, as according to Mr. Crotch's views, *Satyrus*, F., would take priority over *Maniola* in the broad sense; and as Meigen did not materially restrict the application of *Maniola*, that name can only be retained, if at all, for *Dejanira*, L., which Von Heinemann places in a genus by itself, adopting Schrank's *Maniola* for it.

99. PAP. CYRILLUS, p. 165, t. 206. f. 1, 2.

Herbst thus changes the name of *Hipparchia Proserpina*, Cyr., on account of its clashing with that of Denis and Schiffermüller, which, however, is a synonym of *Circe*, F. In any case *Ferula*, F., would take precedence of Herbst's name; but in all probability Cyrilli's insect is only one of the numerous forms of *Actæa*, Esp.

104. PAP. MEDEA, p. 177, t. 208, f. 3, 4.

106. PAP. MEDUSA, p. 182, t. 209, f. 1, 2.

107. PAP. ÆTHIOPS, p. 184, t. 209, f. 3, 4.

Herbst has sadly confused these species. His *Medea* = *Erebia Medusa*, W. V., and the two other species represent the sexes of *E. Æthiops*, Esp.

138. PAP. MACCABÆUS, p. 185, t. 209, f. 5, 6.

This species, though stated to come from India, is probably a variety of *Erebia Pyrrha* or *E. Melampus*.

112. PAP. MELAS, p. 191, t. 210, f. 4-7.

Erebia Melas, Auct.

151. PAP. CORTES, p. 260, t. 225, f. 3, 4.

Herbst thus renames *Junonia Lavinia*, Cr., on account of the nearly contemporaneous *Pap. Lavinia*, F., which = *Victorina Steneles*, var.

154. PAP. CLAUDIA, p. 264, t. 226, f. 3, 4.

Copied from Schulzen's figures of *Agrias Claudia* in the 'Naturforscher.'

157. PAP. IRIS, L., p. 268, t. 226, f. 5, 6; t. 227, f. 1, 2.

The first figures represent *A. Ilia*, ♂; the second (given as *A. Iris*, ♀) the true male of *A. Iris*.

Vol. 9. By Herbst, 1798.

9. PAP. NINA, p. 30, t. 233, f. 1, 2.

Closely allied to, if not identical with, *Mesosemia formosa*, Hew.

49. PAP. APOLLINUS, p. 156, t. 250, f. 5-8.

Copied from Engramelle, and properly named for the first time.

11. PAP. DAUNIUS, p. 184, t. 256, f. 1, 2.

Euptoieta Hegesia, ♀, Cr.

12. PAP. LAUDONIUS, p. 186, t. 256, f. 3, 4.

Not distinct from *Atella Phalanta*, Dr., figured on the same plate.

14. PAP. CLAUSIUS, p. 189, t. 257, f. 3, 4.

Euptoieta Claudia, Cr. Name changed on account of *Agrias Claudia*, Schulz.

16. PAP. GETZIUS, p. 193, t. 258, f. 1-4.

Hypanis Ilithyia, Dr., var. *Polinice*, Stoll in Cram. The name is changed because Cramer is said to have previously employed it for another species; but this seems to be a mistake.

Vol. 10. By Herbst, 1800.

39. PAP. FINGAL, p. 92, t. 270, f. 1-3.

A Scandinavian form of *Argynnis Euphrosyne* = *Dia Lapponica*, Esp., t. 108, f. 5.

40. PAP. OSSIANUS, p. 98, t. 270, f. 4, 5.

41. PAP. TOMYRIS, p. 102, t. 270, f. 6, 7.

Both these are forms of *Argynnis Aphirape*, Hübn.

42. PAP. MARPHISA, p. 105, t. 270, f. 8, 9.

Pap. Arsilache, Hübn., Beitr. I. t. 1, f. A, a, b; *Pap. Cybele*, Hübn., l. c. text p. 7, = *Argynnis Selene*, var.

43. PAP. RINALDUS, p. 108, t. 271, f. 1-4.

Under this name, Herbst has inauspiciously united the *Pap. Thalia*, of Hübner, and that of Esper, which represent similar accidental varieties of *Argynnis Euphrosyne* and *A. Selene* respectively.

57. PAP. TRIVIA, p. 173, t. 276, f. 1-4.

The figures represent *Melitæa Cynthia*, W. V.

62. PAP. ANTIGONUS, p. 212, t. 278, f. 5-8.

This is the true *M. Trivia*, W. V.

67. PAP. PARTHENII, p. 238, t. 283, f. 1-4.

As Borkhausen (I. p. 53) expressly refers to Esper's *Athalia minor*, copied by Herbst, as his *Parthenie*, it appears to me doubtful whether we ought not to consider these the typical figures, instead of quoting Borkhausen's 2nd vol., p. 194, against the first (as Standinger has done in his recent catalogue), unless the description is very clear; and I believe it has often been disputed.

7. PAP. ESRA, p. 260, t. 285, f. 4-6.

Amblypodia Helius, Cr. (201 F, G). Cramer figures a totally distinct species, also as *Helius*, a few plates before; and hence Herbst has justly changed the name.

12. PAP. HYLASSUS, p. 266, t. 286, f. 7-8.

This name will take precedence of *Euchylas*, Hübn., for *Plebeius Hylas*, St., nec W. V.

15. PAP. PELOPUS, p. 270, t. 287, f. 5, 6.

As *Pap. Pelops*, St., is considered = his *Thecla Caranus*, the name *Pelopus* is superfluous, although two other butterflies bore the name *Pelops* before this.

32. PAP. CYLLARISSUS, p. 297, t. 291, f. 3, 4.

Thecla Cyllarus, Cr., nec *Plebeius Cyllarus*, Rott.

39. PAP. SILENISSA, p. 306, t. 292, f. 7.

Pap. Silenus, St., = *Thecla Phaleros*, L.; and therefore did not require a new name.

48. PAP. *Eryssus*, p. 316, t. 294, f. 3.

If it be thought necessary to change the name of *Thecla Erix*, Cr. (*nec Deudorix Eryx*, L.), Herbst's name has priority over *Tyrrhenus*, Hübn.

Vol. 11. By Herbst, 1804.

78. PAP. AMELIA, p. 26, t. 300, f. 3, 4.

Thecla Ætolus, Sulz.

79. PAP. AMYNTOR, p. 27, t. 300, f. 5, 6.

Deudorix Eryx, L.

88. PAP. HESIODUS, F., p. 41, t. 302, f. 5-8.

Hypolycaena Faunus, Dr.

89. PAP. AMOR, F., p. 43, t. 302, f. 9, 10.

Herbst has rightly figured *Pap. Triopas*, St., under this name.

95. PAP. LINCUS, F., p. 56, t. 304, f. 7, 8.

Another figure of *Thecla Ætolus*, Sulz.

96. PAP. PLATO, F., p. 58, t. 304, f. 9, 10.

Herbst has figured *Plebeius Celeno*, Cr., as this species; but Donovan and Butler figure a very different insect as *Plato*, F.

99. PAP. TELICANUS, Lang, p. 65, t. 305, f. 6-9.

Herbst was the first author to figure both sexes of this species.

106. PAP. CERASI, F., p. 97, t. 307, f. 8, 9.

Herbst figures *Thecla Illicis*, ♀, Esp., under this name.

4. PAP. CYLLARUS, Rott., p. 172, t. 309, f. 7-9.

5. PAP. DYMUS, p. 175, t. 309, f. 10, 11.

Herbst has figured the sexes of *Plebeius Cyllarus* as distinct; the insect figured as *Cyllarus*, ♂, is apparently *Plebeius Iolas*, O.

6. PAP. SEMIARGUS, p. 177; *Pap. Acis*, t. 310, f. 1-3.

12. PAP. ZACHÆUS, p. 195, t. 311, f. 9, 10.

Probably *Plebeius Otis*, F.

13. PAP. NANUS, p. 197, t. 312, f. 1, 2.

Resembles *Plebeius Ceraunus*, ♀, F.

40. PAP. TESPIS, p. 270, t. 317, f. 7, 8.

Herbst figures *Plebeius Palemon*, St., in Cr., which is not the true *P. Tespis*, L.

70. PAP. ARITES, p. 307, t. 322, f. 4.

Plebeius (?) *Arius*, Cr.

Herbst divides the Diurnal Lepidoptera into Equites Troes and Achivi; Heliconii; Parnassii; Danai Candidi; Consules (*Euplœa*, &c.); Nobiles (*Kallima*, *Siderone*, &c.); Præfecti (*Vanessa*, &c.), Prætores (*Satyrinæ*); Vestales (*Mesosemia*); Archontes (*Limnitis*, *Hypolimnas*, &c.); Dictatores (*Cærous*, *Lethe*); Milites (*Argyunis* and allies); Ephori (tailed *Lycænidæ*); Cives (tailless ditto); Rustici (*Hesperidæ*).

I am much indebted to Messrs. Butler and Hewitson for information respecting several species mentioned above; and to the former for his having called my attention to the book as imperfectly quoted by authors.